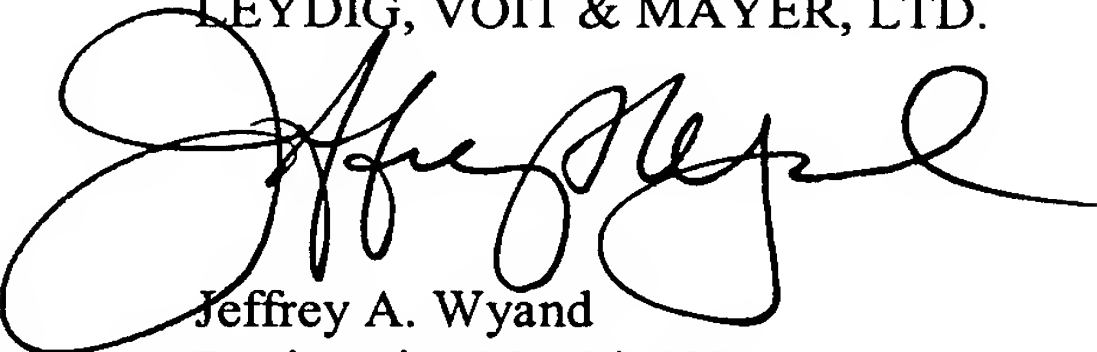


REMARKS

The foregoing Amendment corrects translational errors and conforms the claims to United States practice. No new matter is added.

Respectfully submitted,

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PATENT

Attorney Docket No. 401530/SHINSEI

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

KITAMURA et al.

Art Unit: Unassigned

Application No. Unassigned

Examiner: Unassigned

Filed: January 16, 2002

For: EXCITATION CONTROL DEVICE
AND EXCITATION CONTROL
METHOD

AMENDMENTS TO CLAIMS AND
ABSTRACT MADE VIA PRELIMINARY AMENDMENT

Amendments to existing claims:

1. (Amended) An excitation control device, comprising:
 - voltage detecting means for detecting a voltage of an output terminal of a synchronous machine which is connected to a power transmission system through a transformer;
 - reactive current detecting means for detecting a reactive current output from the synchronous machine;
 - voltage setting means for setting a reference voltage of the output terminal of the synchronous machine according to the reactive current detected by the reactive current detecting means, a reference voltage of an output side of the transformer, and a ~~function of~~ phase compensation ~~used~~ transfer function to quicken ~~the~~ the attenuation of an electric power fluctuation; and
 - control means for controlling an exciting system of the synchronous machine according to a difference between the reference voltage set by the voltage setting means and the voltage of the output terminal of the synchronous machine detected by the voltage detecting means.
2. (Amended) ~~An~~ The excitation control device according to claim 1, wherein the reference voltage of the output terminal of the synchronous machine is set by the voltage setting means ~~by considering~~ based on the voltage of the output terminal of the synchronous machine detected by the voltage detecting means.

3. (Amended) An excitation control method, comprising ~~the steps of~~:
detecting a voltage of an output terminal of a synchronous machine which is connected to a power transmission system through a transformer;
detecting a reactive current output from the synchronous machine;
setting a reference voltage of the output terminal of the synchronous machine according to the reactive current, a reference voltage of an output side of the transformer, and ~~a function of~~ phase compensation ~~used~~ transfer function to quicken ~~the~~ attenuation of an electric power fluctuation; and
controlling an exciting system of the synchronous machine according to a difference between the reference voltage of the output terminal of the synchronous machine and the voltage of the output terminal of the synchronous machine.

4. (Amended) ~~An~~ The excitation control method according to claim 3, wherein ~~the step of~~ setting the reference voltage of the output terminal of the synchronous machine includes ~~the step of~~ setting the reference voltage of the output terminal of the synchronous machine ~~by considering~~ based on the voltage of the output terminal of the synchronous machine.

Amendments to the abstract:

ABSTRACT OF THE DISCLOSURE

A reference voltage V_{Gref} of an output terminal of a synchronous machine ~~21~~ is set according to a reactive current I_Q output from the synchronous machine ~~21~~, a reference voltage V_{Href} of the high voltage side of a transformer ~~22~~, and ~~a transfer function $F_{H1}(s)$ of~~ phase compensation ~~used~~ transfer function to quicken ~~the~~ attenuation of an electric power fluctuation.